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AMENDED CLAIMS

[received by the International Bureau on 20 June 2005 (20.06.2005); original claims 1-5 replaced by new claims 1-5 (1 page)]

- A liquid-vapour distribution device for use in twocomprising: down-flow vessels, concurrent phase a level, horizontal tray being perforated with holes, each perforation through the horizontal tray being fitted with a vapour lift tube, the vapour lift tube consists of at least one elongated up-flow leg and one down-flow leg creating one or two upflow zones, a down-flow zone and a transition zone between the up and down- flow zones, the one or two up-flow legs of the vapour lift tube are fitted along the downflow leg so that each up-flow leg is non-concentric-with respect to the down-flow leg, the improvement of which comprises a bluff body being arranged within the transition zone and/or in a region of the up-flow or down-flow zone adjacent to the transition zone of the vapour lift tube.
- 2. The liquid-vapour distribution device of claim 1, wherein the bluff body is formed as a guide vane curving towards the legs of the vapour lift tube.
- 3. The liquid-vapour distribution device of claim 1, wherein the bluff body is formed as a fairing.
- 4. The liquid-vapour distribution device of claim 3, wherein one or more fairings are arranged on the downflow leg adjacent to the transition zone of the tube.
- 5. The liquid-vapour distribution device of claim 1, wherein the bluff body is formed as an impingement plate

Statement under article 19 (1)

Claims 1 and 5 are replaced by amended claims bearing the same numbers.

Claims 2 to 4 are unchanged.